

HIGHLY AVAILABLE TRANSACTION FAILURE DETECTION AND RECOVERY FOR ELECTRONIC COMMERCE TRANSACTIONS

ABSTRACT OF THE DISCLOSURE

Electronic commerce transaction messages are processed over a network between a client and a server in a highly reliable fashion by establishing a secure or un-secure communications connection between the network client and the network server at an electronic transaction assurance (eTA) system, which is located in a communication path between the network client and the network server. The transaction type is identified in the message and the progress of the transaction is tracked using transaction models. Any failure in the back-end server system or in the network connections is detected and the failure is recovered from using an outcome determination technique. The failure of a node within the eTA system is masked from the network client by formulating an appropriate response and sending it back to the client such that the network client and network server that were using the selected node do not see any interruption in their communications.